

## ABSTRACT

A pigment dispersion liquid comprises pigment particles dispersed in a dispersion medium, the difference ( $D_{90} - D_{10}$ ) between  $D_{90}$  and  $D_{10}$  being not more than 25 nm, wherein  $D_{90}$  and  $D_{10}$  represent the primary particle size that the pigment particles having a primary particle size up to and including  $D_{90}$  account for 90% by number of the total pigment particles, and the particle size that the pigment particles having a primary particle size up to and including  $D_{10}$  account for 10% by number of the total pigment particles, respectively, in the integral of the primary particle size distribution function  $dG = f(D)dD$  of the pigment particles in which  $G$  is a particle number (%) and  $D$  is a primary particle size (nm).

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